

In the Claims:

Cancel claims 3, 5, 8 and 10 without estoppel or disclaimer of the subject matter thereof, and amend claims 1, 4, 6 and 9, as follows:

1. (Currently Amended) A computer-implemented method for designing a shape of a blade having operational stability ~~where the shape of the blade is designed while optimizing a plurality of objective functions are optimized, wherein the plurality of objective functions include including incidence toughness that indicates operation stability of the blade and at least one of a trailing-edge deviation angle, a pressure loss coefficient, a maximum slope of blade surface Mach number for pressure distribution, a lift/drag ratio, and a blade load and incidence toughness that indicates operation stability of the blade, the method comprising the steps for:~~

performing an optimization analysis on the plurality of objective functions according to Pareto optimization approach; ~~and~~

selecting Pareto solutions from the optimization analysis ~~on the basis of consideration of a trade-off for optimal~~ relationship between the objective functions; ~~and~~

~~determining the incidence toughness from first and second evaluation values of a parameter at first and second incident angles whose signs are, respectively,~~

opposite to each other about an incident angle with respect to a design point on the blade.

2.-3. (Cancelled).

4. (Currently Amended) The computer-implemented method according to claim 3 1, wherein the absolute values of the first and second incident angles are  $10^{\circ}$  or less.

5. (Cancelled)

6. (Currently Amended) A computer-implemented program stored on computer-readable medium for designing a shape of a blade having operation operational stability where the shape of the blade is designed while optimizing a plurality of objective functions are optimized, wherein the program instructs the when executed on a computer for to:

executing execute a step where incidence toughness that indicates operation stability of the blade and at least one of a trailing edge deviation angle, a pressure loss coefficient, a maximum slope of blade surface Mach number or pressure distribution, a lift/drag ratio, and a blade load and incidence toughness that

~~indicates operation stability of the blade~~ are a set as one of the plurality of objective functions; and

~~performing~~ perform optimization analysis according to Pareto optimization approach on the plurality of objective functions so that Pareto solutions are obtained ~~on the basis of consideration of a trade-off that optimize~~ a relationship between the plurality of objective functions.; and

the incidence toughness from first and second evaluation values of a parameter at first and second incident angles whose signs are, respectively, opposite to each other about an incident angle with respect to a design point on the blade.

7.-8. (Cancelled).

9. (Currently Amended) The computer-implemented program according to claim 8 6, wherein the absolute values of the first and second incident angles are  $10^{\circ}$  or less.

10. – 15. (Cancelled).